Figure 5-13. Schematic Diagram (Sheet 1 of 4)

Original

Figure 5-13. Schematic Diagram
(Sheet 2 of 4)

GENERAL NOTES:

A. UNLESS OTHERWISE INDICATED, ELECTRICAL VALUES ARE EXPRESSED IN PICOFARADS, MICROHENRIES, AND OHMS.

B. ☐ INDICATES EQUIPMENT MARKING.

SPECIFIC NOTES:

1. RESISTORS R502 AND R503 SELECTED FOR OPTIMUM BANDPASS.

   R502 SELECTED WITHIN RANGE OF 33K TO 68K.

   R503 SELECTED WITHIN RANGE OF 560 TO 2700.

2. REFER TO TABLE 1-9, PRODUCTION MODIFICATIONS, AND FIGURE 3-6.

3. REFER TO FIGURES 5-5 AND 5-6, VOLTAGE AND RESISTANCE DIAGRAMS.

4. SCHEMATIC SHOWN WITH MEGACYCLE CHANGE SET FOR THE .5 TO 1 MC BAND.

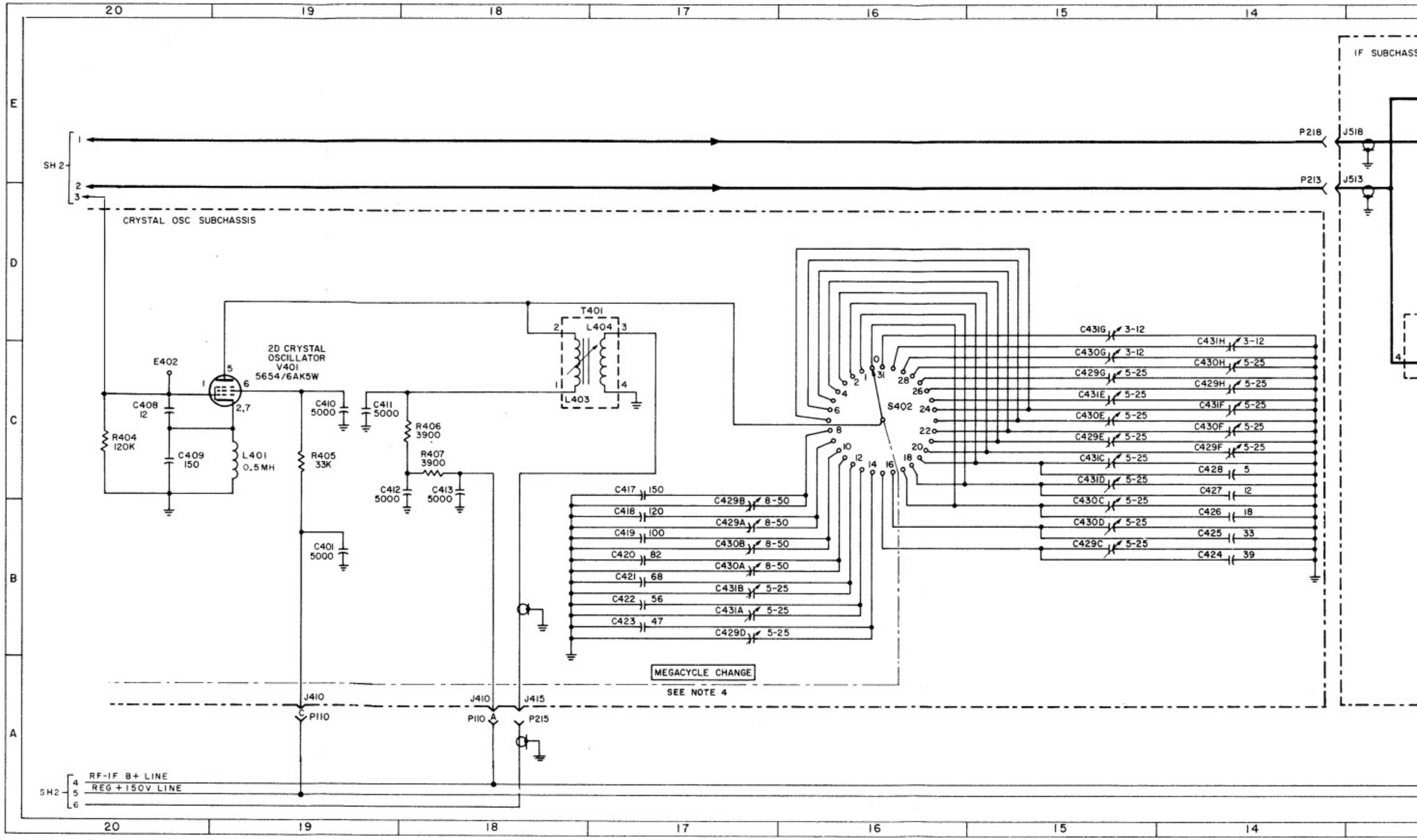


Figure 5-13. Schematic Diagram (Sheet 3 of 4)

ZONING FOR SCHEMATIC DIAGRAM FIGURE 5-13 (SHEET 4 of 4)

REF DESIG	LOC	REF DESIG	LOC	REF DESIG	LOC	REF DESIG	LOC
C539	12C	J620	3B, 3C	R116	4A	R620	6B
C540	12C		9B, 9D	R117	3A	R621	5B
C541	12D	J904	6E	R118	3B	R622	5B
C542	17D	L504	13C	R538	12D	R623	4A
C543	17D	L514	15D	R539	13D	R624	5B
C544	16D	M101	2B	R540	17D	R626	5B
C545	16C	M102	13B	R541	16D	R627	7C
C546	15D	P112	12D, 13C	R542	15C	S101	17B
C547	14D		14C, 15C	R543	16D	S102 (front)	16B
C548	13D		16C, 17C	R544	14D	S102 (rear)	15B
C551	13D	P114	12C	R545	15D	S104	10C
C563	16D	P116	11C	R546	15D	S105	3A
C601	8D	P119	3D, 6E	R547	14D	S107	11E
C602	8D	P120	3B, 3C	R548	13D	T601	4D
C603A	8B		6E, 9B	R549	13D	T602	4B
C603B	8B		9D, 9E	R552	12C	TB102	2D, 13A
C604	6C	R101	3D	R601	9D		13B
C605	5D	R102	2C	R602	8D	TB103	2B, 13B
C607	6B	R103	14B	R603	9C	V506A	13D
C608	5B	R104	10C	R604	8C	V508	16D
C609	8C	R105	10C	R605	8C	V509A	15D
C612	9D	R106	2B	R606	8C	V509B	12D
CR101	13B	R107	2A	R607	7C	V601A	8C
FL601	6C	R108	2A	R608	7C	V601B	7C
J102	2D	R109	3B	R609	6C	V602A	5C
J116	11C	R110	3B	R610	5C	V602B	5B
J512	12D, 13C	R111	2B	R611	5C	V603	4C
	14C, 15C	R112	2B	R612	5C	V604	4B
	16C, 17C	R113	2C	R613	5C	Z503	16D
J514	12C	R114	2B	R614	4C		
J619	3D, 6D	R115	2B	R615	4C		

GENERAL NOTES:

A. UNLESS OTHERWISE INDICATED, ELECTRICAL VALUES ARE EXPRESSED IN PICOFARADS, MICROHENRIES, AND OHMS.

B. ▭ INDICATES EQUIPMENT MARKING.

SPECIFIC NOTES:

1. FUNCTION SWITCH S102 SHOWN IN OFF POSITION
2. REFER TO TABLE 1-9, PRODUCTION MODIFICATIONS.
3. REFER TO TABLE 1-8, FIELD CHANGE DATA.
4. AUDIO RESPONSE SWITCH S104 SHOWN IN WIDE POSITION.
5. LINE METER SWITCH S105 SHOWN IN OFF POSITION.
6. REFER TO FIGURES 5-6 AND 5-8, VOLTAGE AND RESISTANCE DIAGRAMS.

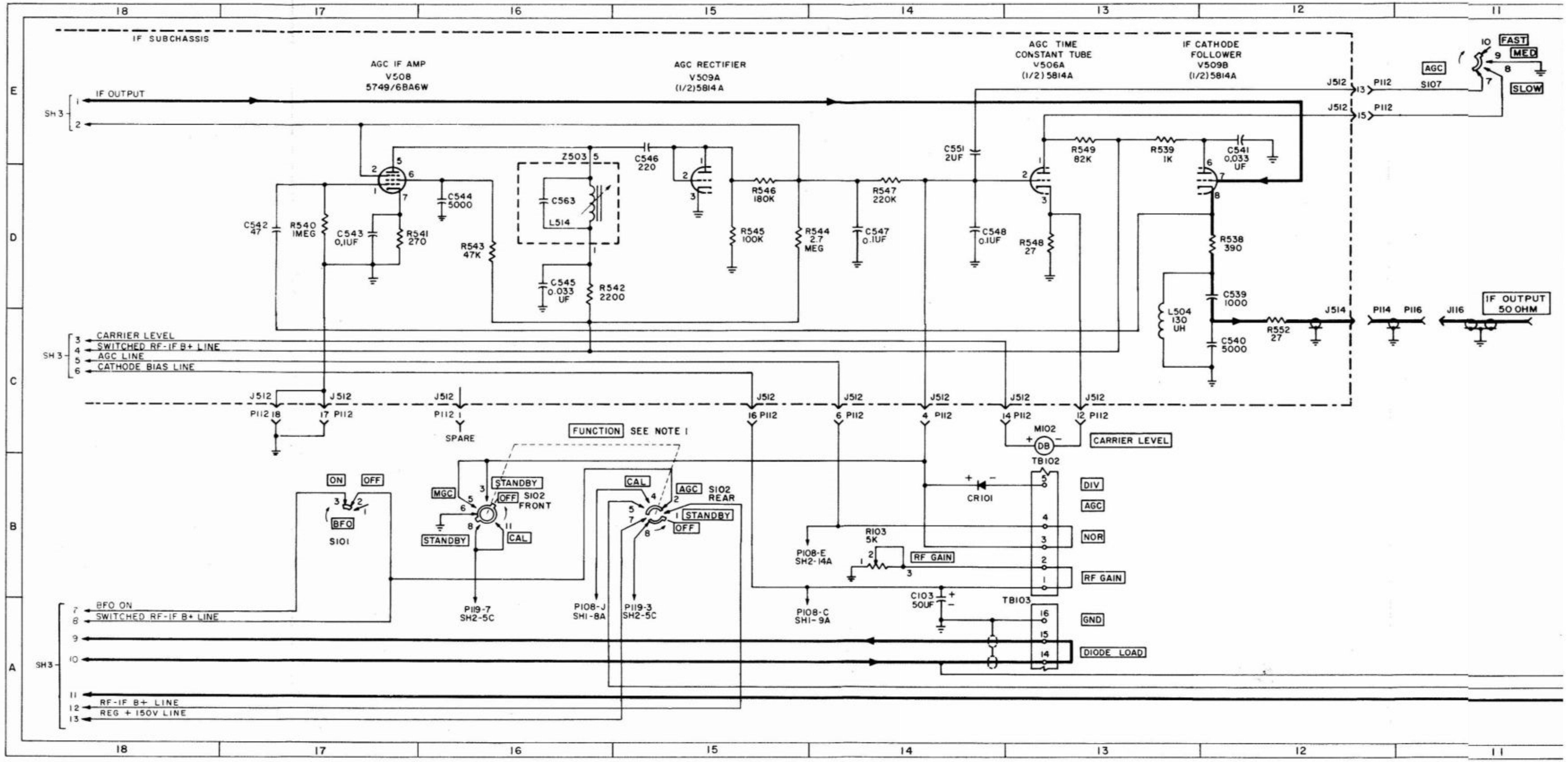
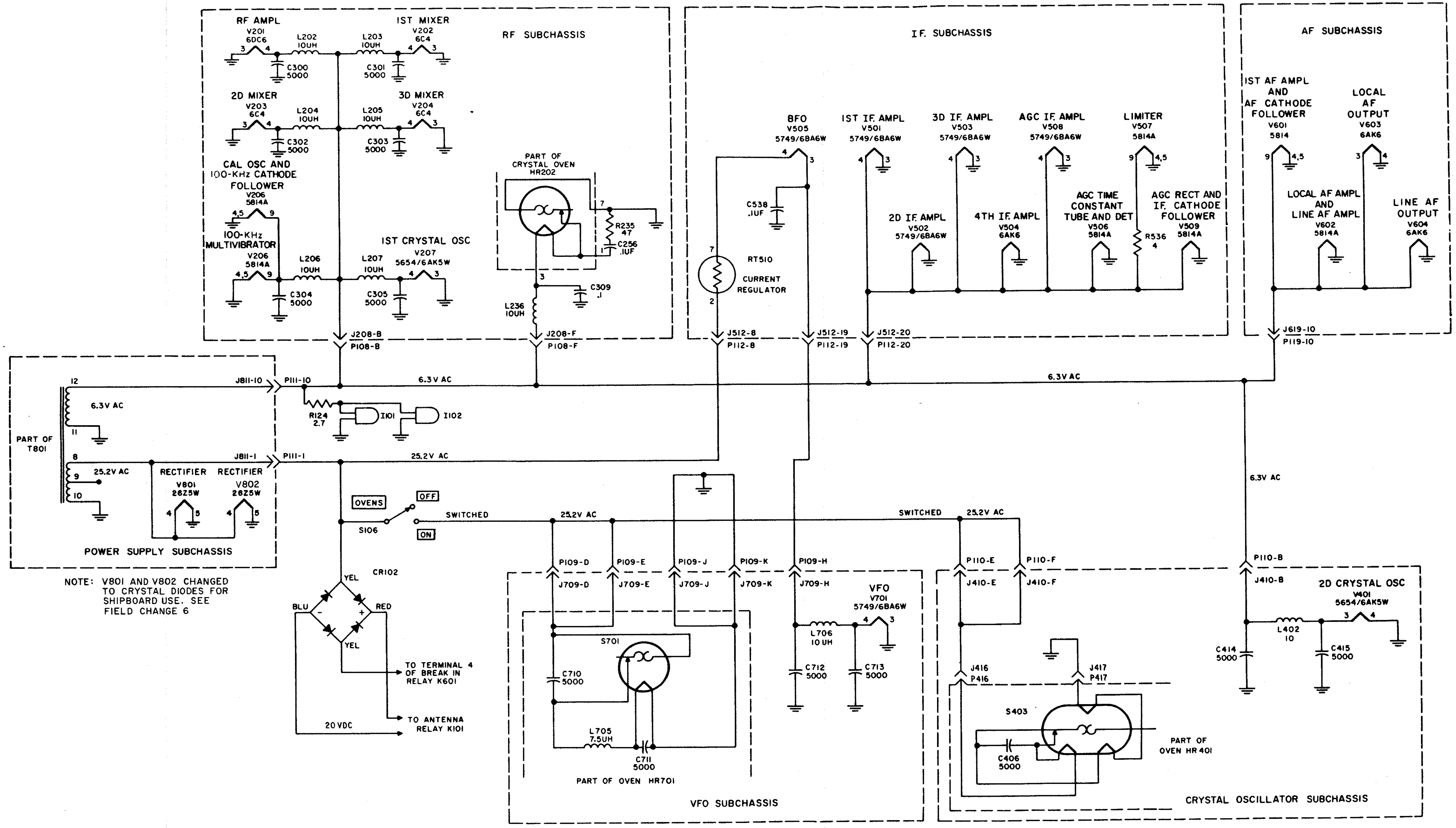


Figure 5-13. Schematic Diagram
(Sheet 4 of 4)



NOTE: V801 AND V802 CHANGED TO CRYSTAL DIODES FOR SHIPBOARD USE. SEE FIELD CHANGE 6

Figure 5-14. Filament and Oven Circuits

NOTES:

1. THE DOTTED LINES AND PARENTHESES REFER ONLY TO RECEIVERS BEARING ORDER NO. 14-PHILA-56 SERIAL NO. 2683 AND ABOVE AND ALL ON 14385-PHILA-58.
2. ON RECEIVERS BEARING ORDER NO. 14-PHILA-56 SERIAL NO. 2683 AND ABOVE AND ALL ON 14385-PHILA-58, THE THREE WIRES FROM P119-2 WITH DESTINATIONS 30, 25, AND 13 ARE ELIMINATED.

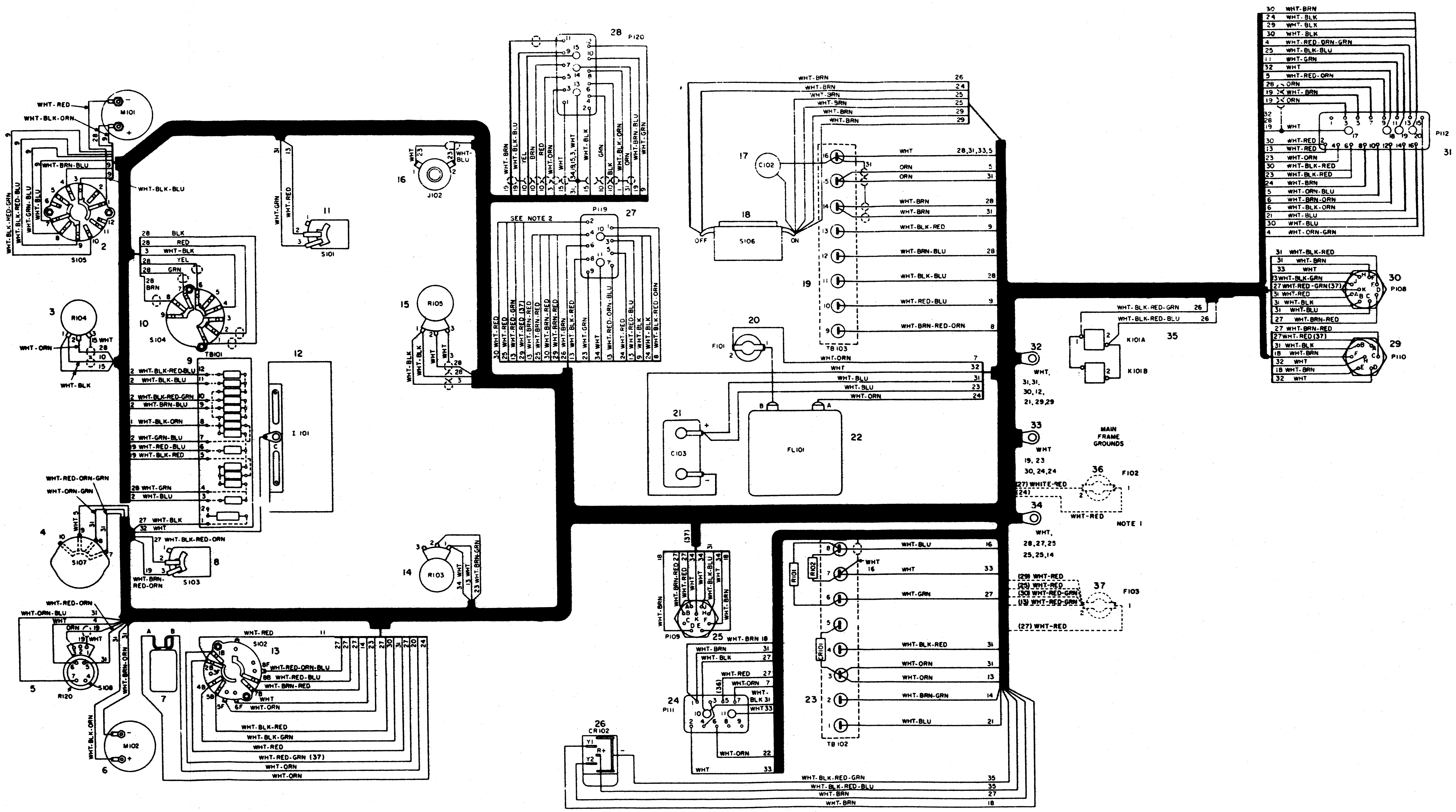


Figure 6-35. Radio Receiver R-390A/URR Main Frame Wiring Diagram

Figure 6-34. Tuning System Showing Relationship of Stages, Block Diagram

ZONING FOR RF GEAR TRAIN ASSEMBLY, EXPLODED VIEW FIGURE 6-36 (Cont)

INDEX NO.	LOCATION	PART NAME	REFERENCE SYMBOL
180	7E	Pressed rear plate	A208
181	7E	No. 6 split lockwasher	H203
182	7E	6-32 by 3/8-inch machine screw	H229
183	7E, 8E	8.0 to 16.0 MHz RF camshaft	0315-5
184	7E	1.0 to 2.0 MHz RF camshaft	0312-5
185	8E	1.0 to 2.0 MHz RF cam, rear	0312-6
186	8E	No. 6/0 taper pin	0312-7
187	8E	8.0 to 16.0 MHz RF cam, rear	0315-6
188	8E	No. 6/0 taper pin	0315-7

NOTES

1. HOLES ON PLATES ARE MARKED WITH LETTERS THAT ARE USED IN THE TEXT FOR ASSEMBLY AND DISASSEMBLY OF GEAR TRAIN.

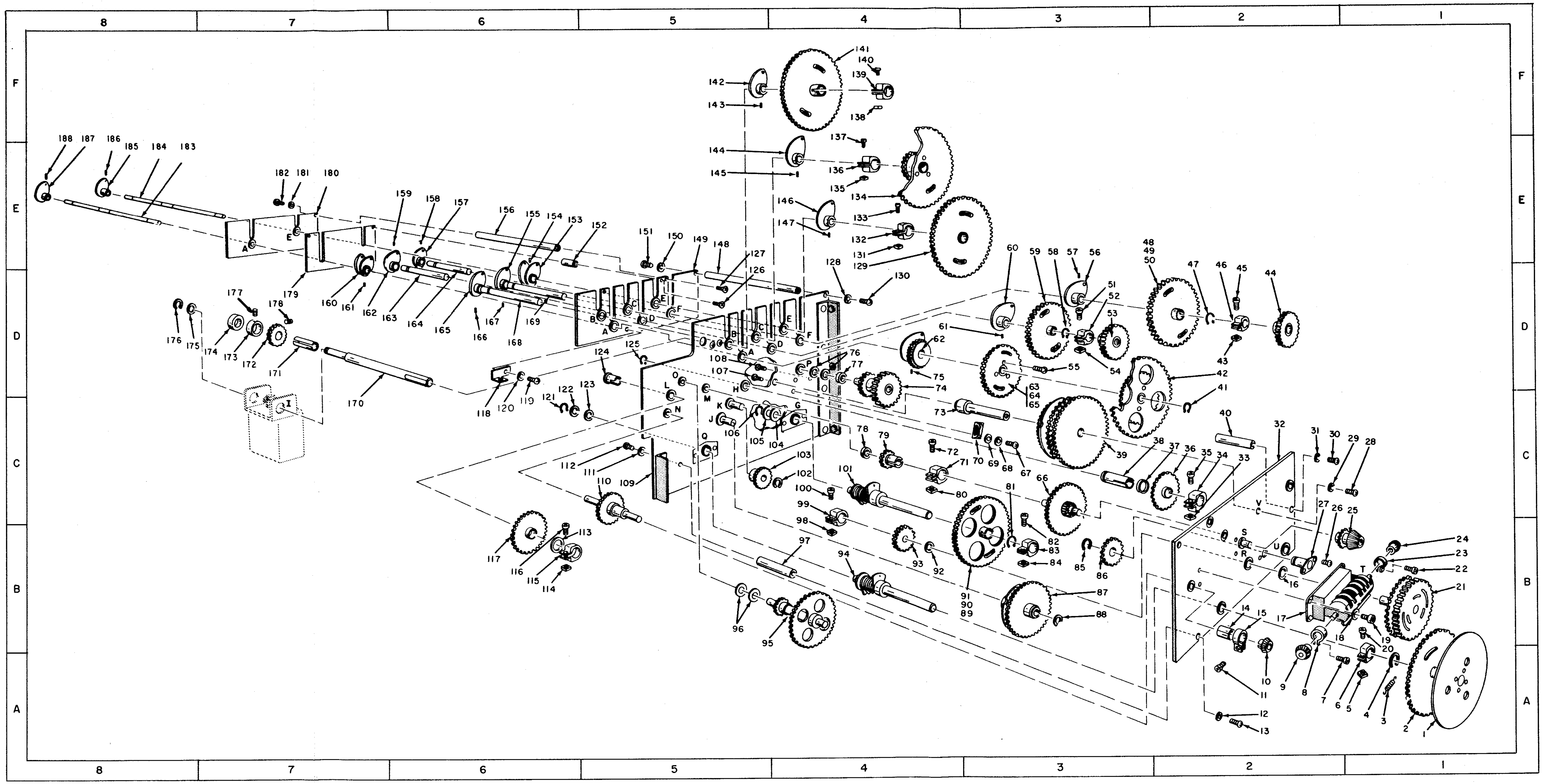


Figure 6-36. RF Gear Train Assembly, Exploded View